

## ABSTRACT

A system for providing video-on-demand service, broadband internet access and other broadband services over T-carrier systems including a pull multiplexer cherrypicker at the head end is disclosed. The pull multiplexer receives upstream requests and cull out MPEG or other compressed video packets, IP packets and other data packet types to satisfy the requests or to send pushed programming downstream. The downstream can be DSL or HFC. Each customer has a cable modem, DSL modem or a gateway which interfaces multiple signal sources to a LAN to which settop decoders, digital phones, personal computers, digital FAX machines, video cameras, digital VCRs etc. can be attached. Each gateway can coupled the LAN to a DSL line or HFC through a cable modem or a satellite dish through a satellite transceiver. A PSTN and conventional TV antenna interface is also provided.

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